

Veterans Drive Improvements Project Phase 1 St. Thomas, USVI





Presented By:

Department of Public Works June 8, 2016





Project Team

Project Schedule & Procurement

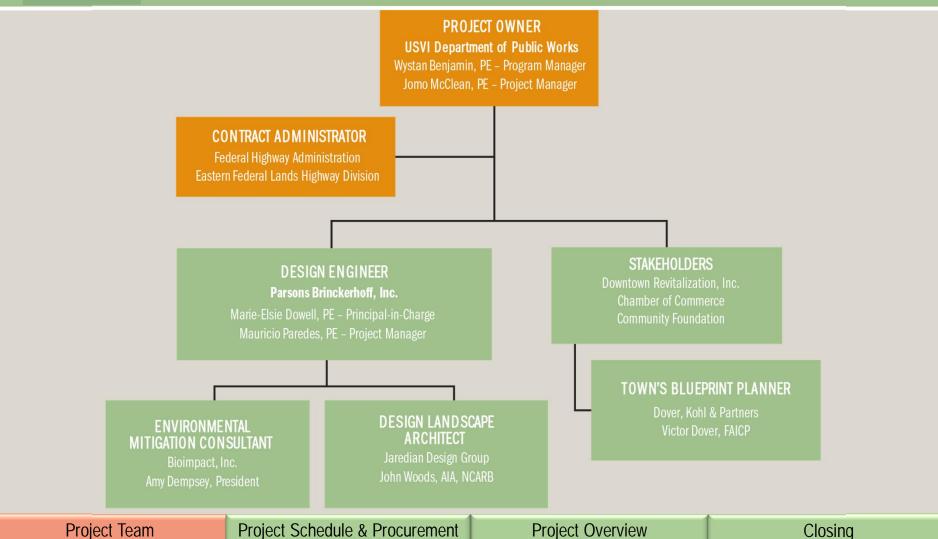
Project Overview

Closing



Project Team







Project Schedule



Q3 2016	Advertise
	Award Construction Contract
Q4 2016	Award Construction Contract
Q1 2017	Preconstruction Conference
Q1 2017	Notice To Proceed
Q1 2019	Construction Complete



Procurement Method



- One Step Request for Proposal (RFP)
 - Technical Proposal = The Contractor uses this part of the proposal to explain how they plan to construct the Project.
 - Price Proposal = The Contractor submits a cost to construct the Project.
- Selection/Award of the Contract
 - Review of Technical Proposals by Panel Members
 - Evaluation of Cost Proposals
 - Best Value Determination



Project Location



- Waterfront of St.Thomas Harbor
- Charlotte Amalie Historic District
- Near Fort Christian National Historic Landmark





Project Limits







Project Objectives



- Upgrade Veterans Drive to Current Design Standards
- Provide Additional Capacity and Enhance Vehicular and Pedestrian Safety
- Enhance Aesthetics of the Corridor
- Provide Continuous Pedestrian Connection to the Waterfront









- Widen existing road from 2 to 4 lanes
- New landscaped median with irrigation
- New sidewalks along north side
- New promenade and retaining wall along south side
- New lighting and signalization
- New signs and pavement markings







- New storm drainage system
- Utility adjustment/relocation
- Benthic habitat mitigation





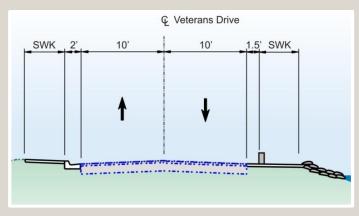
Key Work Items



- 38,553 cubic yards of embankment
- 40,128 square feet of retaining wall (precast modular block seawall)
- 3,279 cubic yards of select granular backfill (wall leveling pad)
- 4,167 cubic yards of select granular backfill (wall backfill)
- 14,438 square yards of Subbase grading A 12-inch depth
- 4,191 Tons of Hot asphalt concrete pavement
- 7,039 square yards of sidewalk, concrete 4-inch
- 1,682 square yards of paving, cobblestone (eurocobble)
- 1,182 square yards of paving (brick)







Existing Section

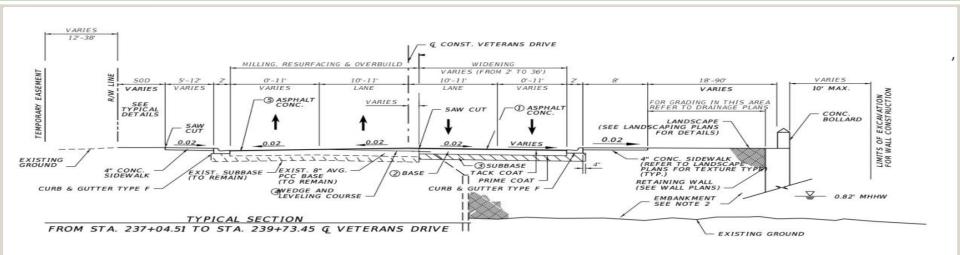


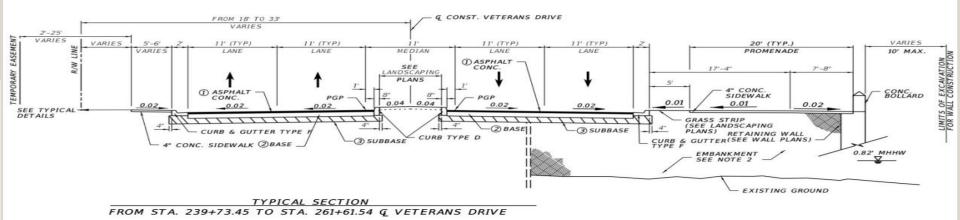
Proposed Section



Typical Sections



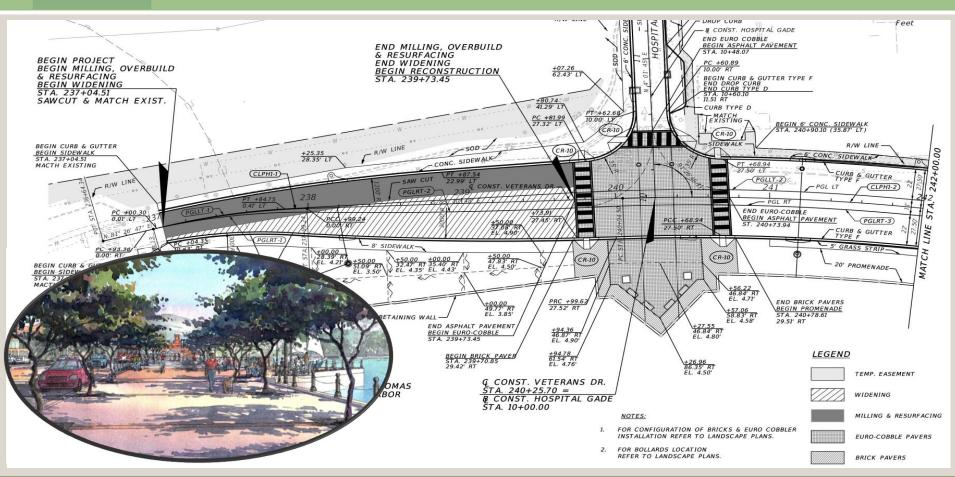






Roadway Plan

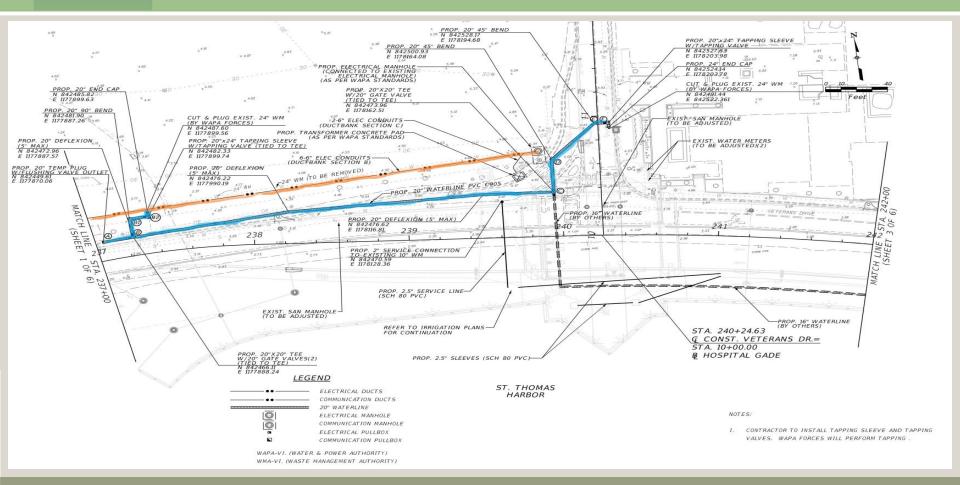




Intersection at Hospital Gade







New Power Feed and Water Main at Hospital Gade

Project Team

Project Schedule & Procurement

Project Overview

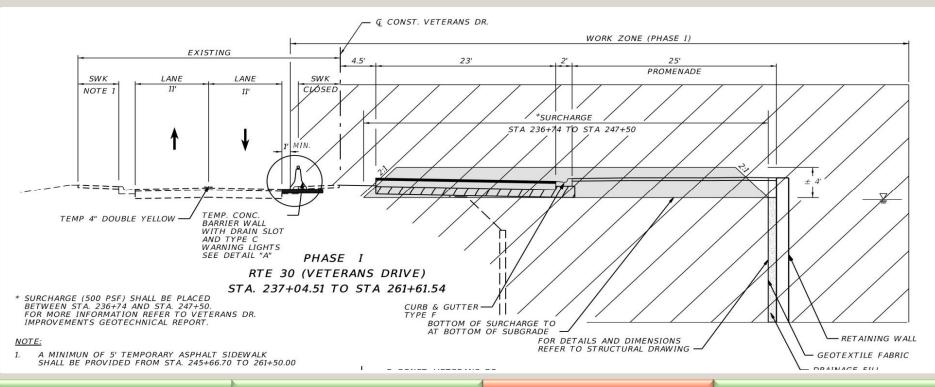
Closing



Construction Sequencing



- Traffic Control
 - Phase 1:
 - Existing lanes remain open, new construction harbor side

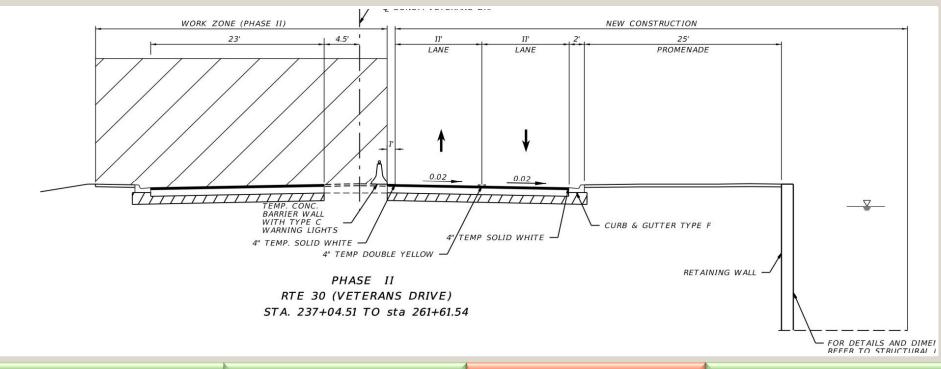




Construction Sequencing



- Traffic Control
 - Phase 2:
 - Switch traffic to new lanes, improve existing lanes

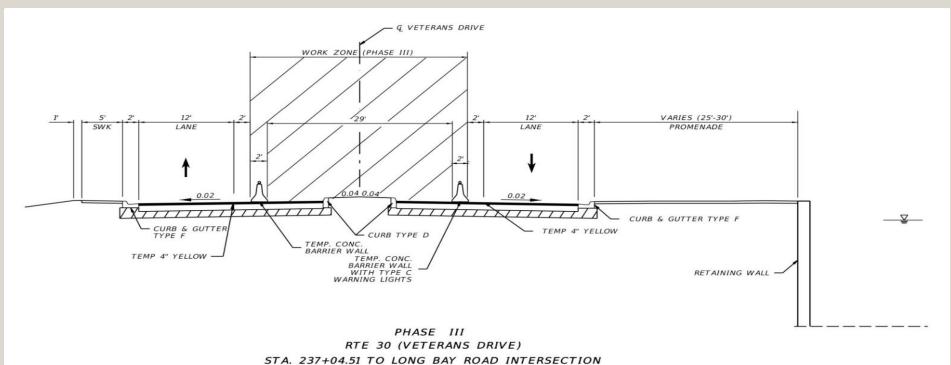




Construction Sequencing

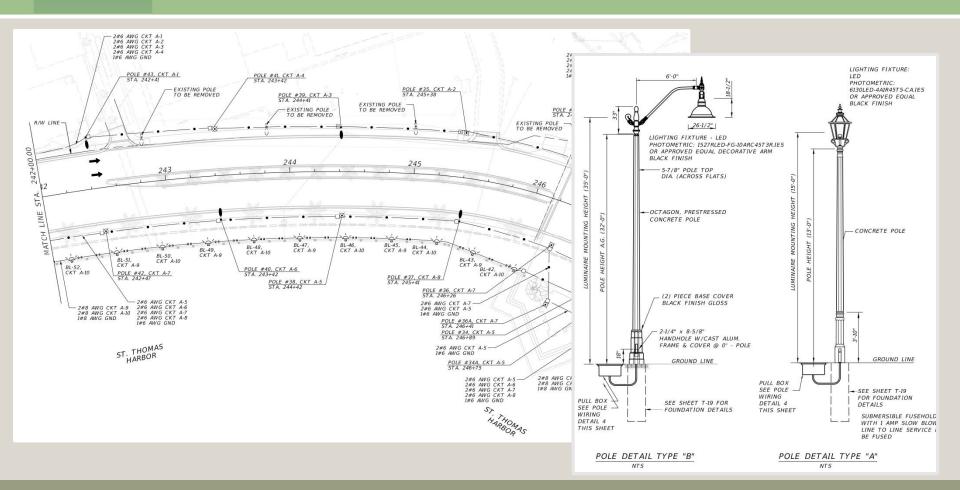


- Traffic Control
 - Phase 3:
 - Switch traffic to EB and WB new lanes, construct median





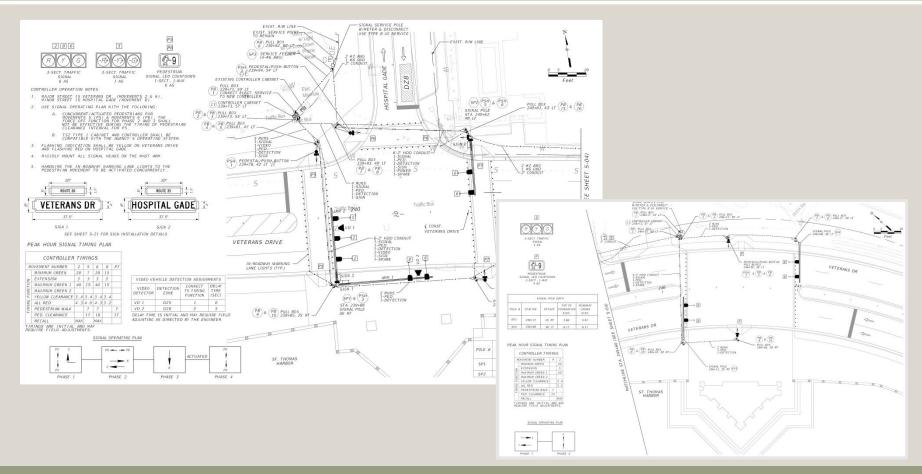






Signalization



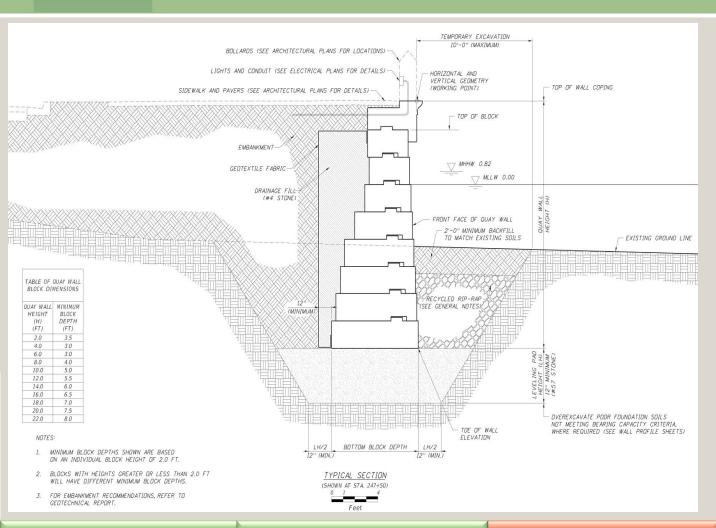


Intersection at Hospital Gade & Boy Scouts Building



Retaining Wall



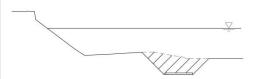


- Wall height up to 22 feet
- Exposed wall height up to 7 feet

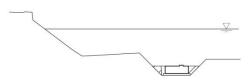


Retaining Wall continued



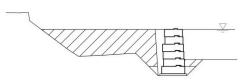


- REMOVE SOILS, DEBRIS AND RIP-RAP ETC. AS DIRECTED BY THE CO. CONTRACTOR TO VERIFY MINIMUM BEARING CAPACITY OF SOIL AND
- SUBMIT RESULTS TO CO FOR APPROVAL
- PLACE AND LEVEL BEDDING STONE FOUNDATION.

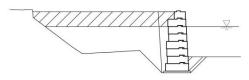


PHASE 2

- PLACE FIRST BLOCK ON BEDDING STONE FOUNDATION.
- VERIFY HORIZONTAL AND VERTICAL GEOMETRY OF BLOCK.
- ADJUST BLOCK AS REQUIRED.
- BACKFILL

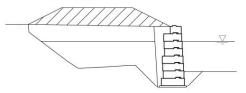


- PLACE ADDITIONAL BLOCKS BELOW WATERLINE.
- VERIFY HORIZONTAL AND VERTICAL GEOMETRY OF BLOCKS.
- ADJUST BLOCK AS REQUIRED.



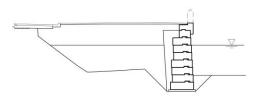
PHASE 4

- PLACE ADDITIONAL BLOCKS ABOVE WATERLINE.
- VERIFY HORIZONTAL AND VERTICAL GEOMETRY OF BLOCKS.
- ADJUST BLOCK AS REQUIRED.
- BACKFILL.
- COMPACT BACKFILL



PHASE 5

- REPLACE REMAINING SOILS AS DIRECTED BY CO.
- PLACE SOIL SURCHARGE IN ROADWAY EMBANKMENT AREA.
- MONITOR SOIL SETTLEMENT.
- REMOVE SOIL SURCHARGE WHEN SETTLEMENT HAS BEEN MET.



FINAL

- CONSTRUCT ROADWAY.
- INSTALL WALL COPING.
- CONSTRUCT SIDEWALK.



Landscaping



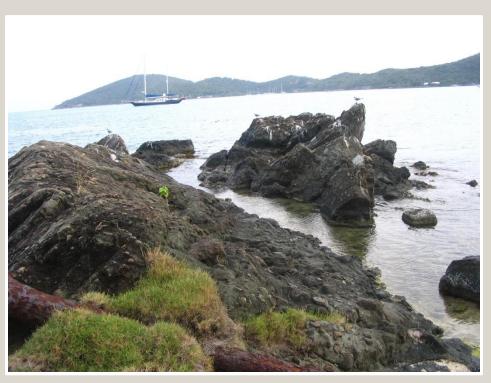




Benthic Mitigation



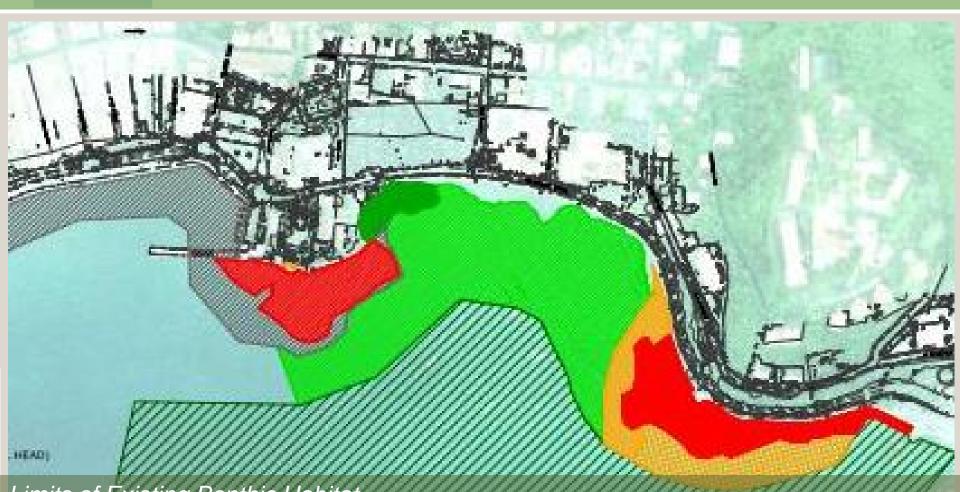
- Impacts
 - Seagrass 1.15 acres
 - Corals 2.97 acres
- Benthic Mitigation Program
 - Transplant Seagrass Bed
 - Transplant Coral Colonized Hard Bottom
 - Water Quality Monitoring





Benthic Mitigation





Limits of Existing Benthic Habitat

Project Team

Project Schedule & Procurement

Project Overview

Closing





Contractor Requirements for Transplant Work

- Qualified and experienced in the transplant of corals and seagrass
- Experienced in transplanting Endangered Species Act (ESA) listed species
- Escrow Account or Bond in the amount of the mitigation
- If 80% survival is not achieved an additional mitigation of approximate value will have to be agreed upon by federal agencies and undertaken





Contractor Requirements for Transplant Work - Continued

- It is imperative that the selected contractor have a performance record showing greater than 80% survival on their transplant projects
- The federal agencies are extremely strict on this requirement





Water Quality and Environmental Monitoring Requirements

- To be implemented during the project to ensure the surrounding environment is not impacted.
- Erosion and sedimentation control devices must be well maintained and adequate.
- Installation of additional measures may be required if water quality or environmental degradation is noted.



Benthic Mitigation



Water Quality and Environmental Monitoring Requirements - Continued

Additional measures may include:

- Additional Turbidity Barriers
- Slowing discharge of water
- Slowing work
- Stopping work until conditions return to ambient



Benthic Mitigation



NOAA Guidelines for Sea Turtles and Marine Mammals

- Vessel Strike Avoidance Measures and Reporting for Mariners and Sea Turtle and Smalltooth Sawfish Construction Conditions
- Siltation barriers shall be installed and monitored to prevent entanglement of sea turtle or smalltooth sawfish
- Barriers may not block sea turtle or smalltooth sawfish entry/exit without prior agreement from the NMFS





NOAA Guidelines for Sea Turtles and Marine Mammals - Continued

- All contractor vessels shall operate at "no wake/idle" speeds at all times where the draft of the vessel provides less than a fourfoot clearance from the bottom.
- All vessels should follow deep-water routes (e.g., marked channels) whenever possible.
- If a sea turtle or smalltooth sawfish is seen within 100 yards of the construction operation or vessel, appropriate precautions shall be implemented





NOAA Guidelines for Sea Turtles and Marine Mammals - Continued

- These precautions shall include
 - Cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish.
 - Activities may not resume until the protected species has departed the project area of its own volition.



Regulatory Agencies



- USVI Department of Planning and Natural Resources
- US Army Corps of Engineers
- US Fish and Wildlife Services
- National Marine Fisheries Services
- Federal Highway Administration
- State Historic Preservation
- Environmental Protection Agency



Closing Remarks





Project Team

Project Schedule & Procurement

Project Overview

Closing